

METHOD TO REDUCE THE OFFSET COMPONENT OF TRACKING ERROR IN AN OPTICAL DISC PLAYER

Abstract

A method of tracking error correction, primarily for utilization in optical disc drives using single beam optical pick-up heads. De-linearization in the tracking servo of a single beam optical pick-up head, contributed to by inherent design properties, is minimized by extracting a value proportional to a tracking error signal offset component from a tracking servo demand signal, applying a scaling factor to match the scaling applied to the tracking servo demand signal with scaling applied to the amplified tracking error signal, and subtracting the product of this function from the source signal i.e. the tracking error signal. The modified source signal, following this operation, has a reduced order of tracking error offset.